## Answer on Question \#74147 - Math - Analytic Geometry

## Question

Angle between the lines $x+3=0$ and $y+7=0$

## Solution

The angle $\theta$ between the lines having slope $m_{1}$ and $m_{2}$ is given by

$$
\tan \theta= \pm \frac{m_{2}-m_{1}}{1+m_{1} m_{2}}
$$

In our problem we have
$x+3=0=>x=-3$, Vertical line
$y+7=0=>y=-t$, Horizontal line
Then lines are perpendicular.
Therefore, the angle between the lines $x+3=0$ and $y+7=0$ is $90^{\circ}$.

